REMARKS

Favorable reconsideration of this application in light of the following discussion is respectfully requested.

In the present application, Claims 40-46, 48-50, and 52-56 are active. Claims 41-45, and 49 were withdrawn in response to the October 7, 2009 Restriction Requirement. Claims 1-39, 47 and 51 were cancelled by previous amendments. The present Amendment amends independent Claims 40, 46, 48, and 52, and adds new Claims 55-56 without introducing any new matter.

The January 27, 2011 Office Action objected to Claim 52 as not indicated as been withdrawn; Claims 48 and 54 were rejected under 35 U.S.C. § 102(b) over Ikuo et al. (Jap. Pat. App. No. 05-225933, hereinafter "Ikuo"); and Claim 50 was rejected under 35 U.S.C. § 103(a) as unpatentable over Ikuo. Claims 40, 46, and 53 are indicated as allowed.

Applicant acknowledges with appreciation the indication of allowable subject matter in Claims 40, 46 and 53.

In response to the withdrawal of Claims 41-45 and 49 as being directed to non-elected species, in case Applicant's independent Claim 40 would be held allowable, and the features of independent Claim 40 do not conflict with the features of dependent Claims 41-45 and 49, Applicant respectfully requests rejoinder of these claims to the active claims.

To correct some minor formal issues, Applicant's independent Claim 40 is amended to recite "to converting the waves of the first kind that formed the first undistorted image of the object to waves of a second kind," and to correct an issue of antecedent basis. Moreover, to address the objection to dependent Claim 52 as depending from a withdrawn claim, Claim 52 is amended to depend from independent Claim 48.

In response to the rejection of Claims 48, 50, and 54 under 35 U.S.C. §§ 102(b) and 103(a), Claim 48 is amended to recite some of the features of Applicants' independent Claim

40, but in device-claim-language. These features find non-limiting support in Applicant's disclosure as originally filed, for example in the specification at page 10, lines 11-24. No new matter has been added.

Turning now to the applied reference, Ikuo is directed to a two-dimensional image radiation detector, that has a vacuum container 2 with an incident window 1 and a pin-hole member 7 close to the incident. (Ikuo, Abstract, Fig. 1.) A two-dimensional image of radiation is formed on a micro-channel plate 3 within the vacuum container 2 and is captured by a CCD image sensor that is located outside of the container 2. (Ikuo, Abstract, Fig. 1.) However, Ikuo fails to teach that the two-dimensional image pick-up device outputs a corrected image of the object , the correction being done by using information of the first undistorted image and the second distorted image for distortion calibration, as required by Applicant's independent Claim 48.
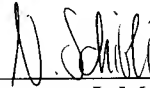
In addition new Claims 55-56 are added, depending from independent Claim 40 and 48, respectively. Independent Claim 55-56 recite features related to the intermediate plane that is acting as an image sensor. These features find non-limiting support in Applicant's disclosure as originally filed, for example in Figure 5, and in the specification at page 13, lines 13-22.

Consequently, in view of the present amendment, no further issues are believed to be outstanding in the present application, and the present application is believed to be in condition for formal Allowance. A Notice of Allowance for Claims 40-46, 48-50, and 52-56 is earnestly solicited.

Should the Examiner deem that any further action is necessary to place this

application in even better form for allowance, the Examiner is encouraged to contact

Applicant's undersigned representative at the below listed telephone number.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, L.L.P.

Gregory J. Maier
Attorney of Record
Registration No. 25,599

Nikolaus P. Schibli, Ph.D.
Registration No. 56,994

Customer Number

22850

Tel: (703) 413-3000
Fax: (703) 413 -2220
(OSMMN 07/09)